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1. [A New Recurrent Neural Network Architecture for Pattern Recognition](#)

neural network architecture in which each output **unit** ... the totally unconstrained handwritten numeral **database** ... The **input** units have linear **transfer function**. The proposed **recurrent neural network** operates as follows. ...

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The proposed **recurrent neural network** has 3 layers. **Input** and hidden layer ... where, 0 is the output of nonlinear **transfer function**, W is weight, and X is **input** to the **unit**. ... tute of Standards and Technology) **database** have been ...

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3. [Prediction of Contact Maps in Proteins Based on Recurrent Neural ...](#)

2.1 **Database**. In this work, we use a large set of non-homologous proteins of solved 3D ... 3 **Recurrent Neural Network** with Bias Units and **Input Encoding** ... Gaussian **function** as the activation **transfer function** of the **network**: ... the bias **unit** and the output layer. V_j is the connecting weights between the hidden ...

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4. [An evaluation of recurrent neural network modelling for the ...](#)

We use a two-layer **neural network**, the **transfer function** from **input** layer to the ... into hidden **unit**; bias into hidden **unit**; hidden **unit** into output. ... These data would form the training **database** analogous to the matrix of constant ...

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5. A real-time **recurrent learning network** structure for data ...

A fully connected **recurrent network** with 3 **input** nodes, 4 nodes in its **recurrent** layer and 1 ... from node l to **node** k and $f_k()$ stands for the **transfer function** of neuron k Data was extracted out of the plant's historical **database**. Meert, K. Catfolis, T. How useful are **recurrent neural** s for realtime ...

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6. Design of Adaptive Filter Using Jordan/Elman **Neural Network** in a ...

Context units copy the activations of output **node** from the previous time step ... Elman **neural network** (ENN) is a type of partial **recurrent neural network**, ... of the **network** and all are also stored as "extra inputs" (called context **unit**) **input** PE = 1, output PE = 1, **transfer function** = TanhAxon, learning rule ...

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7. [PDF] A New **Recurrent Neural-Network** Architecture for Visual Pattern ...

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Oct 25, 2008 ... **neural-network** architecture, in which each output **unit** is con- ... strained handwritten numeric **database** of Concordia University, Montreal, Canada. the **input** units. While Jordan's **recurrent neural network** has ... feature the linear **transfer function**. The proposed **recurrent neural network** ...

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8. Dynamic Process Modeling with **Recurrent Neural Networks**

A **recurrent neural network** is characterized by a set of coupled nonlinear ordinary differential equations ... **unit** (see Appendix A). Figure 2 gives the structure of a neuron The differentiable **transfer function** f , is the sigmoidal **function**, **node**, one **input node**, and one fully connected output **node** ...

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recurrent neural network, and is able to demonstrate the advantage of the dynamical ... measuring the pressure developed at the lips in response to a **unit** Instead, **input** speech is compared to speech synthesized on the basis of a ... to an area **function**, which is used to calculate the **transfer function** of the ...

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10. [A DATA FUSION AND DATA MINING METHOD FOR SHIP SUPERVISION AND ...](#)

Then data will be treated through the data processing **unit** in the intelligent module. ... The **transfer function** of this **network** is described as follows: 1)(\bigcap 1 o) NH ... (2) A state estimation based on an output **recurrent neural network** ... Every **input node** will inputted a measurement of system in fuzzy mode as ...

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